

and fastened on the top end of the shell, so as to keep the two dispenser units in place inside the shell.

That type of configuration does not offer any modularity, given that it is always necessary to use the 5 same kind of dispenser units to make the dual dispenser. Given that each reservoir of a unit rests on the bottom wall of the shell, it is not possible, for example, to modify the volume of the reservoir of a unit, given that its actuator rod would then no longer project out from 10 the shell.

An object of the present invention is to remedy the above-mentioned prior-art drawback by defining a fluid dispenser of the dual type that offers significant modularity concerning the dispenser units that can be 15 integrated therein. In particular, it could use units having reservoirs that present different capacities.

To achieve this object, the present invention proposes a fluid dispenser comprising: two distinct dispenser units, each comprising a fluid reservoir 20 defining an opening, a dispenser member for taking and dispensing the fluid from the reservoir, and a fastener member for fastening the dispenser member on the opening of the reservoir; and a common outer shell in which at least the two reservoirs are housed, the shell including 25 receiver means for receiving and holding the two dispenser units inside the shell. Each dispenser unit thus advantageously includes holding means for co-operating with the receiver means of the shell for holding the respective unit separately inside the shell. 30 The fastener member preferably forms the holding means. Thus, each dispenser unit is held in distinct manner by its fastener member, i.e. at the opening of the reservoir, in the receiver means formed by the shell. Thus, the reservoir in a unit no longer need to rest on 35 the bottom wall of the shell, such that the shell does not even need to form a bottom wall, which can thus advantageously be a separate fitted piece. The units can

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## CLAIMS

1. A fluid dispenser comprising:
  - two distinct dispenser units (1), each comprising a fluid reservoir (20) defining an opening (23), a dispenser member (3) for taking and dispensing the fluid from the reservoir, and a fastener member (4) for fastening the dispenser member (3) on the opening (23) of the reservoir (20); and
  - a common outer shell (6) in which at least the two reservoirs (20) are housed,  
said dispenser being characterized in that the shell (6) includes receiver means (62) for receiving and holding the two dispenser units (1) inside the shell.
- 15 2. A dispenser according to claim 1, in which each dispenser unit (1) includes holding means (43) for co-operating with the receiver means (62) of the shell (6) for holding the respective unit separately inside the shell.
- 20 3. A dispenser according to claim 2, in which the fastener member (4) forms the holding means (43).
- 25 4. A dispenser according to any preceding claim, in which the receiver means (62) form two snap-fastener housings (620), the holding means forming a peripheral radial flange (43) which extends outwards, and which is for snap-fastening in a respective housing.
- 30 5. A dispenser according to any preceding claim, further comprising blocking means (7) for blocking the dispenser units (1) in the receiver means (62).
- 35 6. A dispenser according to claim 5, in which the blocking means comprise a cup (7) fastened on the shell (6), and coming into blocked engagement with the dispenser units (1).

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7. A dispenser according to claim 5 or claim 6, further comprising a dispenser head (5) for actuating the two units (1) simultaneously, the cup (7) forming a sleeve (73) having the dispenser head (5) slidably engaged on its inside or its outside, the sleeve (73) including retention means (731) suitable for preventing the head from being removed from the sleeve.

10 8. A dispenser according to claim 7, in which the dispenser head (5) is adapted to be mounted on actuator rods (34) of the respective units, the retention means (731) enabling the head (5) to be prepositioned on the actuator rods (34), the final mounting of the head on the rods taking place while the dispenser is being actuated for the first time.

15 9. A dispenser according to any preceding claim, in which the shell (6) is provided with a bottom wall (8), and the reservoirs (20) do not come into bearing contact against the bottom wall.

20 10. A dispenser according to any preceding claim, in which the receiver means are formed integrally as a single piece with the shell.

25 11. A dispenser according to any preceding claim, in which the dispenser units are engaged in the receiver means via the top, such that the reservoirs penetrate firstly into the shell via the receiver means.

30 12. A dispenser according to claim 11, in which the receiver means (62) comprise two housings (620), each comprising snap-fastener profiles (621) and bearing surfaces (622), the holding means including a flange (43) defining a top face engaged with the snap-fastener

profiles, and a bottom face engaged with the bearing surfaces.

13. A dispenser according claim 12, further comprising a  
5 dispenser head that is displaceable by bearing axially in  
such a manner as to press the bottom face of the flange  
against the bearing surfaces.